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1-5

SECTION 1

PRODUCT IDENTIFIER DATE OF PREPARATION PRODUCT USE

ZY2255 CHALKBOARD FINISH BLACK

DECEMBER 30, 1999 PROTECTIVE COATING

MANUFACTURED BY:

ICI PAINTS NORTH AMERICA, 925 EUCLID AVENUE,

CLEVELAND , OHIO 44115, U.S.A.
ICI PAINTS (CANADA), 8200 KEELE STREET,
CONCORD, ONTARIO L4K 2A5, CANADA.

EMERGENCY AND MEDS TELEPHONE NUMBER:

1-800-545-2643

CHEMICAL NAME DISTILLATES (PETROLEUM), STEAM--CRACKED,

HSDS PREPARED BY: PRODUCT SAFETY AND TOXICOLOGY DEPARTMENT

ICI PAINTS NORTH AMERICA

·* • • • • • • • • • • • • • • • • • • •	BECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS	
	INGREDIENT	WT.X:
CHEMICAL NAME : COMMON NAME : CAS NUMBER:	VINYL TOLUENE ALKYD COPOLYMER ALKYD RESIN CONFIDENTIAL	1-5
CHEMICAL NAME COMMON NAME : CAS NUMBER:		.1-1.0
COMMON NAME:	BENZENE, METHYL TOLUENE 108-88-3	10-20
CHEMICAL NAME COMMON NAME : CAS NUMBER:	LIMESTONE	10-20
CHEMICAL NAME COMMON NAME : CAB NUMBER:		.1-1.0
CHEMICAL NAME COMMON NAME : CAS NUMBER:	CARBON BLACK	.1-1.0
CHEMICAL NAME COMMON NAME : CAS NUMBER:	SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC MEDIUM ALIPHATIC SOLVENT NAPHTHA 64742-88-7	1-5
CHEMICAL NAME COMMON NAME : CAS NUMBER:	SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM) 64742-89-8	10-20
CHEMICAL NAME COMMON NAME : CAS NUMBER:	HEAVY AROMATIC SOLVENT NAPHTHA	1-5
CHEMICAL NAME COMMON NAME : CAS NUMBER:		10-20

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3

20-30

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

POLYMERIZED

COMMON NAME : PETROLEUM RESINS

CAB NUMBER: 60131-77-1

CHEMICAL NAME PETROLEUM GASES, LIQUEFIED, SWEETENED

COMMON NAME : LIQUEFIED PETROLEUM GASES, SWEETENED

CAS NUMBER: 68476-86-8

CHEMICAL NAME BENZENE .01-.1

COMMON NAME : BENZENE CAS NUMBER: 71-43-2

CHEMICAL NAME BENZENE, 1, 2, 4-TRIMETHYL-.1-1.0

COMMON NAME : PBEUDOCUMENE CAS NUMBER: 95-63-6

SECTION 3: HAZARDS IDENTIFICATION

PRIMARY ROUTE(B) OF EXPOSURE

INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION,

EFFECTS OF OVEREXPOSURE

INHALATION PROLONGED INHALATION MAY LEAD TO LOSS OF APPETITE, MUCOUS

MEMBRANE IRRITATION, FATIGUE, DROWBINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA, VONITING, ABDOMINAL PAIN, CHEST PAIN, COUGHING, DIFFICULTY WITH SPEECH. CENTRAL NERVOUS SYSTEM DEPRESSION, INTOXICATION, METALLIC TASTE, CONFUSION, ANESTHETIC EFFECT OR NARCOSIS, DIFFICULTY OF BREATHING, BLOOD ABNORMALITIES, TREMORS, BEVERE LUNG IRRITATION OR DAMAGE, LIVER DAMAGE, KIDNEY

DAMAGE, PULMONARY EDEMA.

NEUROTOXICITY

CONVULSIONS, LOSS OF CONSCIOUSNESS, ASPHYXIATION, DEATH.

BKIN CONTACT IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE

DERMATITIE, DEFATTING, BLISTERING, SKIN CONTACT MAY RESULT IN DERMAL ABSORPTION OF COMPONENT(S) OF THIS PRODUCT WHICH

MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION.

EYE CONTACT IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE CONJUNCTIVITIS, BLURRED VISION, TEARING OF EYES, REDNESS OF

EYES, SEVERE EYE IRRITATION, CORNEAL INJURY, BLINDNESS.

INGESTION INGESTION MAY CAUSE LUNG INFLAMMATION AND DAMAGE DUE TO

ASPIRATION OF MATERIAL INTO LUNGS, MUCOUS MEMBRANE

IRRITATION, FATIGUE, DROWSINESS, DIZZINESS AND/OR

LIGHTHEADEDNESS, HEADACHE, UNCOURDINATION, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, ABDOMINAL PAIN, CENTRAL NERVOUS SYSTEM DEPRESSION, PULMONARY EDEMA, LOSS OF

CONSCIOUSNESS.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

EYE, SKIN, RESPIRATORY DISORDERS

3

CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR FIRE.
VAPOKS MAY IGNITE EXPLOSIVELY AT AMBIENT TEMPERATURES.
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL LONG DISTANCES TO A SOURCE OF IGNITION AND FLASH BACK.
CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE.
MAY DECOMPOSE UNDER FIRE CONDITIONS EMITTING IRRITANT AND/OR

TOXIC GASES.

FIRE FIGHTING PROCEDURES

WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS. FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND SELF-CONTAINED BREATHING APPARATUS.

HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS
CARBON MONOXIDE, CARBON DIOXIDE, TOXIC GASES.

SECTION & ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL
REGULATIONS.
ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA.

ELIMINATE ALL SOURCES OF IGNITION, VENTILATE AREA.
VENTILATE AREA WITH EXPLOSION-PROOF EQUIPMENT. SPILLS MAY
BE COLLECTED WITH ABSORBENT MATERIALS. USE NON-SPARKING
TOOLS. EVACUATE ALL UNNECESSARY PERSONNEL.
COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING
CLEANUF.

LARGE SPILLS - SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND

SECTION 6 ACCIDENTAL RELEASE MEASURES

CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. US ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE LISE MATERIAL AND RINGE WATER OUT OF SEWERS AND WATER COURSES.
SMALL SPILLS - USE ABSORBENT TO PICK UP RESIDUE AND DISPOSE OF PROPERLY.

SECTION 7 HANDLING AND STORAGE

HANDLING AND STORAGE

STORE BELOW BOF.

STORE IN ORIGINAL CONTAINERS. ISOLATED STORAGE IS DESIRABLE. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME.

OTHER PRECAUTIONS

USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER. HANDLING, ESPECIALLY BEFORE EATING OR SMOKING. KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE. EMPTY CONTAINERS MAY CONTAIN HAZARDOUB RESIDUES.
GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION OF STATIC CHARGE.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

COMMON NAME :

ETHYLBENZENE

CAS NUMBER: ACGIH(TWA): 100-41-4

ACGIH(STEL):

100 PPM 125 PPM OSHA(TWA):

100 PPM

200

COMMON NAME : CAS NUMBER:

TOLUENE 108-88-3

ACGIH(TWA):

SKIN 250

OSMA((SKIN)

: (AWT)AHBO CEILING: 300 PPM SUPP REC STD.:

PPM

MG/M3

COMMON NAME : LIMESTONE

CAS NUMBER: ACGIH(TWA): 1317-65-3

40

CBHA(TWA):

MG/M3

NOT AVAILABLE

PPM

COMMON NAME :

CAS NUMBER: ACGIH(TWA): XYLENE

1330-20-7

ACGIN(STEL.):

100 PPM 150 FPM

OSHA(TWA):

100 PPM

COMMON NAME :

CARBON BLACK 1333-86-4

CAS NUMBER: ACGIH(TWA):

OSHA(TWA):

COMMON NAME :

3.5

MG/M3 LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM)

MG/M3 3.5

CAS NUMBER:

64742-89-8

DSHA(TWA):

300 PPM

COMMON NAME :

CAS NUMBER: ACGIH(TWA): ACGIH(STEL): ACETONE 67-64-1

500 PPM 750

OSHA(TWA):

1000

COMMON NAME : PETROLEUM RESINS

BECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION 60131-77-1 CAS NUMBER: MG/M3 MG/M3 DSHA(TWA): ACGIH(TWA): LIQUEFIED PETROLEUM GASES, SWEETENED COMMON NAME : CAS NUMBER: 68476-86-8 BSHA(TWA): 1000 PPM 1000 PPM ACGIH(TWA): BENZENE COMMON NAME : CAS NUMBER: 71-43-2 .5 PPM 1 PPM CAWT) AHBO ACGIH(TWA): 5 PPK 2.5 PPM OBHA(BTEL.): ACGIH(STEL.): SKIN - DENOTES THAT ADDITIONAL EXPOSURE, OVER AND ABOVE AIRBORNE EXPOSURE, MAY RESULT FROM SKIN ADSORPTION. RESPIRATORY PROTECTION CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE EXPOSURE STANDARDS WHEN USING THIS MATERIAL. RESPIRATORY PROTECTION IS DETERMINED TO BE NECESSARY, USE NIOSH/MSHA (CANADIAN Z94.4) APPROVED ELASTOMERIC SEALING-USE A SURFACE FACEPIECE RESPIRATOR OUTFITTED WITH ORGANIC VAPOR CARTRIDGES AND PAINT SPRAY (DUST/MIST) PREFILTERS.
DETERMINE THE PROPER LEVEL OF PROTECTION BY CONDUCTING APPROPRIATE AIR MONITORING. CONSULT 29CFR1910.134 FOR SELECTION OF RESPIRATORS (CANADIAN Z94.4). PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT VENTILATION BUILD-UP OF VAPORS. USE EXPLOSION-PROOF EQUIPMENT. USE NON-SPARKING EQUIPMENT. PERSONAL PROTECTIVE EQUIPMENT EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES. IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING, BOOTS.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE: BOILING RANGE: XVOLATILE BY VOLUME: PHYSICAL STATE:

NOT AVAILABLE 87.03

SPECIFIC GRAVITY: 133-420F/56-216C WEIGHT PER GALLON:

. 828 6.90/ 8.29IMP

SOLUBILITY IN WATER:

AFROSOL NOT AVAILABLE

APPEARANCE PH:

NOT AVAILABLE NOT AVAILABLE

SECTION 10: STABILITY AND REACTIVITY

UNDER NORMAL CONDITIONS

STABLE

SEE BECTION 5 FIRE FIGHTING MEASURES

MATERIALS TO AVOID

CONDITIONS TO AVOID

OXIDIZERS, ACIDS, BASES, AMINES, NITRIC ACID, MINERAL ACIDS.

ELEVATED TEMPERATURES, CONTACT WITH OXIDIZING AGENT, SPARKS, OPEN FLAME, IGNITION SOURCES.

XY2255

PAGE SECTION 10: STABILITY AND REACTIVITY HAZARDOUS POLYMERIZATION WILL NOT OCCUR BECTION 11: TOXICOLOGICAL INFORMATION COMMON NAME : ALKYD RESIN CAS NUMBER: CONFIDENTIAL CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO COMMON NAME : ETHYLBENZENE CAS NUMBER: 100-41-4 CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO LD50: 3500.00 MG/KG ORL RAT LD50: 2272.00 MG/KG IPR MOU LD50: 17.80 GM/KG SKN RBT COMMON NAME : TOLUENE CAS NUMBER: 108-88-3 CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO LD50: 12.10 GM/KG SKN RET LD50: 636.00 MG/KG ORL RAT LC50: 400.00 PPM IHL MOU COMMON NAME : LIMESTONE CAS NUMBER: 1317-65-3 CARCINOGENICITY LISTED BY: NTP NO IARC NO OBHA NO ACGIH NO LD50: 6450.00 MG/KG DRL RAT COMMON NAME : XYLENE CAS NUMBER: 1330-20-7 CARCINOGENICITY LISTED BY NTF' NO IARC NO OSHA NO ACGIH NO LD50:>1700.00 MG/KG SKN RBT LD50: 4300.00 MG/KG ORL RAT LC50: 5000,00 PPM/4HR THL. RAT COMMON NAME : CARBON BLACK CAS NUMBER: 1333-86-4 CARCINOGENICITY LISTED BY . NTP NO IARC YES 29 OSHA NO ACGIH NO LD50:> 10.00 GM/KG ORL RAT COMMON NAME : MEDIUM ALIPHATIC SOLVENT NAPHTHA CAS NUMBER: 64742-88-7 CARCINOGENICITY LISTED BY. NTP NO IARC NO OSHA NO ACGIH NO SKN RDT LD50: 28.00 GM/KG 28.00 GM/KG L D50: ORL RAT COMMON NAME : LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM) CAS NUMBER: 64742-89-8 CARCINGGENICITY LISTED BY: NTP NO OSHA NO IARC NO ACCIH NO LD50:> 3.16 GM/KG SKN RRT LDSO:> 5.00 GM/KG ORL. RAT COMMON NAME : HEAVY AROMATIC SOLVENT NAPHTHA CAS NUMBER: 64742-94-5 CARCINOGENICITY LIBTED BY: NTP NO IARC NO OBHA NO ACGIH NO COMMON NAME : ACETONE CAS NUMBER: 67-64-1

IARC NO

OSHA NO

ACGIH NO

CARCINOGENICITY LISTED BY. NOP NO

BECTION 11: TOXICOLOGICAL INFORMATION

LD50: 5800.00 MG/KG ORL RAT LD50:>9400.00 MG/KG SKN CPG

COMMON NAME : PETROLEUM REBINS

68131-77-1 CAS NUMBER:

CARCINOGENICITY LISTED BY NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME : LIQUEFIED PETROLEUM GASES, SWEETENED

CAS NUMBER: 68476-86-8

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50: 6960.00 MG/KG ORL RAT

COMMON NAME : BENZENE

CAS NUMBER: 71-43-2 CARCINOGENICITY LIBTED BY: NTP YES A IARC YES 1 OSHA YES ACGIH YES A2

LD50: 930.00 MG/KG ORL RAT LD50:>9400.00 MG/KG SKN RBT LD50:>9400.00 MG/KG

SUPPLEMENTAL HEALTH INFORMATION

CONTAINS A CHEMICAL THAT MAY BE ABSORBED THROUGH SKIN. NOTICE - REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE TOXICITY TO LIVER,

KIDNEY, LUNGS, CENTRAL NERVOUS SYSTEM, BLOOD, SPLEEN, HEART,

GASTROINTESTINAL TRACT.

CARCINOGENICITY

THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED CARBON BLACK AS POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B) BASED ON SUFFICIENT EVIDENCE IN ANIMALS AND INADEQUATE EVIDENCE IN HUMANS. IN A 2 YEAR INHALATION STUDY CONDUCTED BY THE NATIONAL

TOXICOLOGY PROGRAM (NTP), ETHYLBENZENE VAPOR AT 750 PPM PRODUCED KIDNEY AND TESTICULAR TUMORS IN RATS AND LUNG AND LIVER TUMORS IN MICE. GENETIC TOXICITY STUDIES SHOWED NO GENOTOXIC EFFECTS. THE RELEVANCE OF THESE RESULTS TO HUMANS IS NOT KNOWN.

REPRODUCTIVE EFFECTS

HIGH EXPOSURES TO XYLENE IN SOME ANIMAL STUDIES, OFTEN AT MATERNALLY TOXIC LEVELS, HAVE AFFECTED EMBRYO/FETAL DEVELOPMENT. THE SIGNIFICANCE OF THIS FINDING TO HUMANS IS NOT KNOWN.

NO MUTAGENIC EFFECTS ARE ANTICIFATED MUTAGENICITY

TERATOGENICITY NO TERATOGENIC EFFECTS ARE ANTICIPATED

SECTION 12: ECOLOGICAL INFORMATION

NO ECOLOGICAL TESTING HAS BEEN DONE BY ICI PAINTS ON THIS PRODUCT AS A WHOLE.

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				CABLE REGULATIONS
ECTION 14: TR	ANBPOR	T INFOR	MATION	
AINT, 3, UNIZ	63, PG	II		
VEROSOLS, CLASS	2,UN1	950,に16	TITED QUAN	FITY
OT AVAILABLE				
OT AVAILABLE				
ECTION 15: RE	GULATO	RY INFO	RMATION	
11-4 NO BENZENE	YES	YES	YES	ИО
38-3 NO	YES	YES	YES	NO
-20-7 NO	YES	YE8	YES	ИО
1-i NO DNE	NO	YES	NG	NO
5-2 NO	YE.S	YE8	YES	NO
	ISPOSE IN ACCIVOID DISCHARGE ECTION 14: TRESPONDENCE OF AVAILABLE ECTION 15: RESPONDENCE NO NO NE NO NO NE NO NO NE NO NO NE	ISPOSE IN ACCORDANC VOID DISCHARGE TO N ECTION 14: TRANSPOR FAINT, 3, UN1263, PG ECTION 15: REGULATO SARA SARA 302 313 EL-4 NO YES ENE ES-3 NO YES ENE ECTION 15: NO YES ENE ECTION 16: NO NO ENE	ISPOSE IN ACCORDANCE WITH VOID DISCHARGE TO NATURAL ECTION 14: TRANSPORT INFORMATION, 3, UN1263, PGII WERDSOLS, CLASS 2, UN1950, LINE OT AVAILABLE OT AVAILABLE OF AVAILABLE SECTION 15: REGULATORY INFORMATION 15	EROSOLS, CLASS 2, UN1950, LIMITED QUANTOT AVAILABLE ECTION 15: REGULATORY INFORMATION SARA SARA CERCLA HAZ AIR 302 313 302.4 FOLLUTANT 11-4 NO YES YES YES EB-3 NO YES YES YES THE -20-7 NO YES YES YES ELLUTANT RECOMMENDED ONE

AS OF THE DATE OF THIS MSDS, ALL OF THE COMPONENTS IN THIS PRODUCT ARE LISTED (OR ARE OTHERWISE EXEMPT FROM LISTING) ON THE TSCA INVENTORY.

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CFR (CONTROLLED PRODUCTS REGULATIONS) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CFR.

SECTION 16: OTHER INFORMATION

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE AT THE TIME OF PREPARATION OF THIS DATA SHEET AND WHICH ICI PAINTS BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA. ICI PAINTS SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS INFORMATION, OR OF ANY PRODUCT, METHOD OR APPARATUS MENTIONED AND YOU MUST MAKE YOUR OWN DETERMINATION OF ITS BUITABILITY AND COMPLETENESS FOR YOUR OWN USE, FOR THE PROTECTION OF THE ENVIRONMENT, AND THE HEALTH AND SAFETY OF YOUR EMPLOYEES AND USERS OF THIS MATERIAL. COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29CFR1910.1200.

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SECTION 16: OTHER INFORMATION